

SWBAT: distinguish between conduction and convection

Jan 4-7:20 AM

Welcome!!!

H. Leslie Grebe

* Pick up:

- slip of paper (for later)
- white board, marker, eraser
- notebook (if you use one)

Test on Wednesday!



Opening question:

Why does the metal part of your chair feel colder than the plastic top?

METAL IS A BETTER
CONDUCTOR THAN PLASTIC

Centering

Sep 7-7:04 AM

ConDuction:

Transfer from particle to particle or through contact

WHICH CONDUCTS HEAT BETTER?
WOOD OR METAL

TILE FLOOR OR BATHROOM RUG
STYROFOAM, FEATHERS, FLEECE
IS AIR A GOOD OR BAD CONDUCTOR?

Jan 14-7:08 AM

ConVection:

Transfer by movement of heated substance (fluids) = LIQUID OR GAS

ICE & BOILING DEMO

ICE ON TOP MELTED. BOILING

ICE ON BOTTOM WHILE BOILING AT TOP

⇒ WATER IS BETTER
AT CONVECTION
THAN CONDUCTION

Jan 14-7:25 AM

Eureka 24

<http://www.youtube.com/watch?v=tpkyuqjal8o>ConDuction or ConVEction

↳ PARTICLES
BUMPING
CONTACT

↳ HEATED FLUIDS
MOVING

BARE FEET ON
HOT PAVEMENT
BURNING MOUTH
ON HOT SOUP

HEATING
VENT

BLOW ON
HOT SOUP

COLDER ON
WINDY DAY

Jan 14-7:30 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. Which form of heat transfer is about particles bumping and contact?

- ☒ A. ConDUction
- ☐ B. ConVEction
- ☐ C. both
- ☐ D. neither

2. Which form of heat transfer is about movement of heated fluids?

- ☐ A. ConDUction
- ☒ B. ConVEction
- ☐ C. both
- ☐ D. neither

3. IS WATER BETTER
AT CONDUCTION OR
CONVECTION?

3. ☒ Blowing on your soup to cool it off is an example of heat transfer through:

- ☐ A. ConDUction
- ☒ B. ConVEction
- ☐ C. both
- ☐ D. neither

Jan 3-7:48 AM